



#### **Timing Modes**

On-Delay, Off-Delay, Interval and Accumulating On-Delay

## **Timing Specifications**

Timing Ranges: 6 to 180 cycles; 0.1 to 3 / 0.5 to 15 / 1 to 30 / 2 to 60 /

4 to 120 / 6 to 180 / 10 to 300 sec.; 0.33 to 10 / 0.5 to 15 / 1 to 30 min.; 1 to 6 / 2 to 48 hr. (All are +5%, -0% of

maximum values).

Timing Adjustment: Knob or fixed time (internal fixed resistor) – all models:

customer supplied external potentiometer or resistor

On-Delay and Interval models only.

Accuracy: Repeat Accuracy: ±.5% ±0.004 sec...

Overall Accuracy: ±2% throughout operating temperature

and voltage ranges.

Reset Time: 30 ms. min. (between deenergization and reenergization

without affecting accuracy.)

Relay Operate Time: Off-Delay mode: 35 ms.; Interval mode: 20 ms. Relay Release Time: On-Delay and Accumulating On-Delay modes: 20 ms.

## Contact Data @ 25°C

Arrangements: 2 Form C (DPDT).

Rating: 10A @ 28VDC or 120VAC, resistive; 1/3 HP @ 120/240VAC; 345VA.

Same polarity

Expected Mechanical Life: 10 million operations.

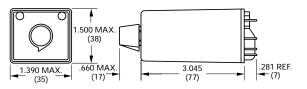
Expected Electrical Life: 500,000 operations, min., at rated resistive load.

### Initial Dielectric Strength

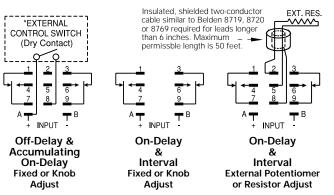
Between Terminals and Case: 1,000VAC plus twice the nominal voltage

for one minute

#### **Outline Dimensions**



## Wiring Diagrams (Bottom Views)



# **STA** series

# Specification Grade Discrete Plug-in Time Delay Relay With QC Terminals

- On-Delay, Off-Delay, Interval and Accumulating On-Delay timing modes
- 13 timing ranges from 0.1 sec. to 48 hr.
- 10A DPDT output contacts
- Knob, fixed or external timing adjustment.
- QC plug-in terminals save space, two LEDs show status

**File** E60363

File LR51332

CE

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

#### Input Data @ 25°C

Voltage: See Ordering Information section for details.

Power Requirement: 3W, max.

Transient Protection: Non-repetitive transients of the following magnitudes will not cause spurious operation of affect function and accuracy.

Operating Voltage	<0.1 ms	<1 ms
All except 12 & 24	3,000V	2,500
12 & 24	Consult Factory	

#### **Environmental Data**

Temperature Range: Storage: -40°C to +85°C

Operating: -30°C to +65°C

#### Mechanical Data

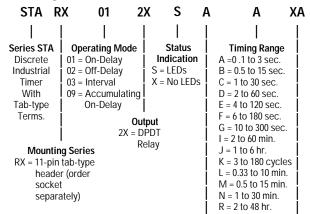
Mounting/Termination: Quick connect terminals fit either 27E121 or

27E893 (snap-on) socket (order separately).

Status Indication: Power On LED and Output Contacts LED (optional).

Weight: 4.2 oz. (119g) approximately.

## Ordering Information (All "X's" must be included to complete part number)



#### Operating Voltage (+10%, -15%) A = 120VAC, 50/60 Hz. / 120VDC E = 24VAC, 50/60

Hz. / 24VDC = 48VAC, 50/60 Hz / 48VDC Q = 12VDC

## **Timing Adjustment**

XA = Knob Adjust XB = External Potentiometer or resistor (Operating modes 1 and 3 only). XF =Fixed Times -

## Specify time delay in seconds per the following examples:

XF9.000 = 9 sec.XF99.00 = 99 sec.XF999.0 = 9999 sec.XF1000 = 1000 sec.

#### Authorized distributors are likely to stock the following:

None at present.